

ABSTRACT

A two or more chambered airbag provides much improved safety and/or performance. A modified single chamber airbag can be used as the primary chamber of the two-chamber airbag. A piece of fabric of appropriate size is sewn to the inside or outside surface of the front panel of the primary chamber to create the secondary chamber. One or more apertures are opened between the primary and secondary chambers. In order for the secondary chamber to inflate properly, the tethers of the primary chamber are shortened to 50% to 80% of their original length. The size or location of the tether sewing to the inner surface of the front panel of the primary chamber is also adjusted to create a desired shape of the secondary chamber when deployed.